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## **CLAIMS**

We claim:

1. A method of creating an education simulation having a character for a learner to interact with, the method comprising the steps of:

providing a simulation interface through a simulation software code, wherein the character appears within the simulation interface;

providing a data storage area for storing at least one trait of the character, the at least one trait having a trait value,

communicating possible statements and/or actions through the simulation interface to the learner;

receiving from the learner a chosen statement or action from the possible statements and/or actions;

responding to the statement or action chosen by the learner by providing a character response by the character, wherein the character response provided is determined by the trait value of the at least one trait; and,

generating new possible statements and/or actions for the learner contained within the data storage area.

- 2. The method of claim 1 wherein the data storage area stores a plurality of character traits which together reflect a state of mind of the character.
- 3. The method of claim 1 wherein the data storage area stores a plurality of character traits which together reflect a personality of the character.
- 4. The method of claim 1 wherein the at least one character trait is a desire to buy a product or a service.

- 5. The method of claim 1 wherein the data storage area is a dynamic data model.
- 6. The method of claim 5 wherein the dynamic data model is independent of the simulation software code.
- 7. The method of claim 1 wherein the trait value of the at least one trait is calculated by adding a previous trait value with a trait change value for the at least one trait.
- 8. The method of claim 7 wherein the trait change value for the at least one trait is calculated by adding a previous trait change value with an effect force.
- 9. The method of claim 8 wherein the effect force is determined by whether the learner has selected a neutral statement or action.
- 10. The method of claim 8 wherein the effect force is determined by whether the learner has identified a problem.
- 11. The method of claim 8 wherein the effect force is determined by whether the learner has identified a solution.
- 12. The method of claim 8 wherein the effect force is determined by whether the learner has identified a solution after the learner has met a problem threshold value.
- 13. The method of claim 8 wherein the effect force is determined by whether the learner has identified a correct answer.

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- 14. The method of claim 8 wherein the effect force is determined by whether the learner has identified an incorrect answer.
- 15. The method of claim 10, 11, 12, 13, or 14 wherein the respective effect force depends on at least one predetermined value that is selectable by a designer.
  - 16. The method of claim 8 wherein the effect force is determined by a decay.
- 17. The method of claim 16 wherein the decay is negative when the learner has positively impacted the trait value.
- 18. The method of claim 16 wherein the decay is positive when the learner has negatively impacted the trait value.
- 19. The method of claim 16, 17, or 18 wherein the decay has a rate and direction that are selectable by a designer.
- 20. The method of claim 1 wherein the trait value has a minimum trait value, a maximum trait value, and a default trait value.
- 21. The method of claim 20 wherein the trait value has a minimum limit threshold value and a maximum limit threshold value, wherein it becomes more difficult for the leaner to have a trait value that reaches the minimum trait value once the trait value reaches the minimum limit threshold, and wherein it becomes more difficult for the leaner to have a trait value that reaches the maximum trait value once the trait value reaches the maximum limit threshold.

- 22. The method of claim 1 wherein the character has a learner trait value and a competitor trait value, and wherein the learner competes with a competitor, the learner attempting to raise the learner trait value and the competitor attempting to raise the competitor trait value of the character.
- 23. The method of claim 22 wherein when the competitor trait value raises, the learner trait value is negatively affected.
  - 24. The method of claim 1 wherein the at least one trait has a rate of change.
- 25. The method of claim 1 wherein the at least one trait has a direction of change.
- 26. The method of claim 24 or 25 wherein the rate of change and the direction of change each have a minimum, a maximum, and a default value.
- 27. A method of creating a response by a character within an education simulation for a learner, the method comprising the steps of:

providing a data storage area for storing at least one trait of the character, the at least one trait having a trait value,

receiving from the learner a chosen statement or action;

responding to the statement or action chosen by the learner by providing a character response by the character, wherein the character response provided is determined by the trait value of the at least one trait.

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28. A system for creating a response by a character within an education simulation for a learner, the system comprising:

a data storage area for storing at least one trait of the character, the at least one trait having a trait value,

a first code segment for receiving from the learner a chosen statement or action; a second code segment responding to the statement or action chosen by the learner by providing a character response by the character, wherein the character response provided is determined by the trait value of the at least one trait.

29. A method of creating a data structure for a character trait of a character for a conversation based educational simulation for a learner, the method comprising the steps of:

providing character trait data structure editing software;

creating a data structure comprising a set of initial values for the character trait, a set of personalization variables for the character which cause the character to respond in a particular manner to selections of the learner, and set of effect values for use within the calculation of a trait value for the character trait in response to the selections of the learner.

30. A system for creating a data structure for a character trait of a character for a conversation based educational simulation for a learner, the system comprising:

character trait data structure editing software;

a data structure comprising a set of initial values for the character trait, a set of personalization variables for the character which cause the character to respond in a particular manner to selections of the learner, and set of effect values for use within the calculation of a trait value for the character trait in response to the selections of the learner.